

Private Lead Service Line Replacement Program

January 2019

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Contact Us

Water Business Office 109 N. Macy Street Fond du Lac, WI 54936 Office: 920-322-3680

www.drinkingwater.fdl.wi.gov

Private LSLR Program Overview

The City of Fond du Lac is taking steps to minimize lead in your drinking water.

An EPA Lead & Copper Rule Revisions White Paper provides the following insight:

- In 2011, the EPA Science Advisory Board reported partial lead service line replacement (PLSLR) is "frequently associated with short-term elevated drinking water lead levels for some period of time after replacement...Available data suggest that the elevated tap water lead levels tend to gradually stabilize over time following the PLSLR, sometimes to levels below and sometimes at levels similar to those observed prior to PLSLR."
- EPA estimates that drinking water can make up 20% or more of a total exposure to lead.
- "EPA has consistently emphasized that the health-based maximum contaminant level goal for lead in the current Lead & Copper Rule is zero and that there is no safe level of lead exposure."
- "Where they are present, the most significant source of lead in drinking water are leaded pipes that extend from the water main underneath the street to the residence."

Based on this report, it is recommended to replace the entire lead service line in conjunction with street and utility reconstruction projects. For this reason on February 8th, 2017 the City Council of Fond du Lac passed Ordinance No. 3629 requiring replacement of lead water service lines in their entirety during planned utility improvements and emergency repair situations.

The City of Fond du Lac has obtained a Safe Drinking Water Loan through the Wisconsin DNR for \$300,000 in 2017, and \$200,000 in 2018. The money can be used over a three year period to help residents offset the cost of replacing the private portion of their lead service line.

The Private LSLR Program was developed to empower the homeowner in giving them the opportunity to decide who and how their lead service line is replaced. It also assists the resident in navigating the sometimes difficult and confusing process of hiring a contractor. The program includes a list of contractors that the city has prequalified for you, the resident, to choose from. The City encourages resident to obtain at least 2-3 quotes from contractors to ensure you get the best price. After you decide on a contractor and have chosen a date, the **contractor** will complete the work and the necessary forms and return them to the city. The city will then pay the contractor the subsidy amount and the homeowner will pay the contractor the remaining balance.

Lead Health Effects

Lead is absorbed by the lungs and the digestive tract from all sources and enters the bloodstream, where it is distributed to all tissues of the body. Excessive levels of lead can damage the brain, kidneys, nervous system, red

Information Links

dnr.wi.gov/topic/drinkingwater/lead *Wisconsin DNR (Lead)*

www.epa.gov/lead

U.S. Environmental Protection

Agency (Lead)

www.fdl.wi.gov
City of Fond du Lac
See "Get the Lead out"

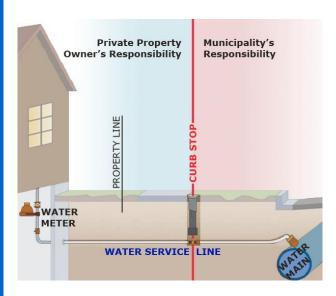
www.lslr-collaborative.org
Lead Service Line
Replacement Collaborative

www.fdlco.wi.gov/home
Fond du Lac County
See Health Department

www.cdc.gov Centers for Disease Control and Prevention blood cells and reproductive organs. The degree of harm is directly related to the level of lead in the blood. Known effects of exposure to lead range from subtle changes in body chemistry and nervous system functions at low levels to severe toxic effects or even death at very high levels associated with acute poisoning.

Young children, infants and fetuses appear to be particularly vulnerable to harmful effects of lead. A dose of lead that would have little effect on an adult can have a big effect on a small child. Also, growing children will more rapidly absorb any lead they consume. A child's mental and physical development can be irreversibly stunted by over exposure to lead, especially in infants, whose diet consists of liquids made with water.

What is a Private Lead Service Line?



The water service line is the pipe that carries water from the water main, which is usually located in the street, to your home. The service line is comprised of two sections, the city's portion, and the private property or home owner's portion. The city's responsibility starts at the water main and terminates at the curb stop. The curb stop is a valve that is usually located between the sidewalk and the street.

This valve is used to control the water to your property.

It is from this point that the ownership of the service line changes to private property and becomes the home owner's responsibility.

During a normal construction process the city's contractor will replace the municipality's portion, and connect to the home owner's portion leaving the rest in place. Recent studies have shown that this process of partial lead service replacements can elevate the level of lead in the home's water for some time.

What is my service line material?



Water service material has changed over time. The four main materials are lead, galvanized or iron pipe, copper, and polyethylene or plastic. Lead was initially used because it's stable and malleable. Plumbers found it easy to work with. As a matter of fact the word "plumbing" is derived from the Latin word for lead, "plumbum" and dates back to the Roman era.

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Lead was predominately used as water service piping up until 1950. It

Tips to Reduce Exposure (Source: EPA.gov)

- Use only cold water for drinking, cooking and making baby formula.
- Boiling water does not remove lead from water.
- Regularly clean your faucet's screen (also known as an aerator)
- Consider using a water filter certified to remove lead and know when it's time to replace the filter
- Before drinking, flush your pipes by running your tap, taking a shower, doing laundry or a load of dishes.

continued to be used in soldered joints up until 1984. The major problem with lead is it's poisonous.

Galvanized steel was commonly used for homes built before 1960. It was lead's replacement. Galvanized steel service lines that were fed by lead service lines in the past may release lead for an extended period of time. Because of this fact private galvanized iron pipe service lines that were previously fed by lead are eligible for the Private LSLR Program.

Copper and plastic are the most commonly used water service material in modern day, although copper is not as commonly used as plastic. There are no known negative health effects from these materials.

Electrical Grounding

Some homes use the existing lead service as a grounding source for the home's electrical panel. When the lead service is discontinued to be used as a water pipe, using the lead pipe as a source of grounding now becomes unacceptable per the Wisconsin State Electrical code. As part of your LSLR it may be necessary to install a code compliant grounding system. This work should be included as part of your total estimate from the plumbing contractor. This work is considered to be an eligible reimbursed expense. Your home will be inspected during the process by the City of Fond du Lac Building Inspections department to ensure all electrical codes are met.

Meter Placement



The water meter is the device which measures the amount of water that is consumed in the house. It is located at the point of where your water service enters your home. This is normally located in the basement along the wall closest to the street. Sometimes it may be in the middle of the basement. The City of Fond du Lac municipal code §642-10 requires that this meter be placed at the point at which the service enters the house.

When you meet with plumbers keep in mind that the location you determine to have the new service enter your home along with the construction method will determine if and where the water meter **must** be moved. During this process your home will be inspected by a City of Fond du Lac Water Utility representative to ensure compliance with the municipal code. The cost associated with moving the meter is not considered to be an eligible reimbursed expense.

Typical Construction Methods

There are two major methods that may be used to replace your lead water service. The method you choose can affect property disruption, meter placement, and overall project cost. Not all plumbers do the same methods.

One method is to "open cut" or "open trench". This method is the most disruptive. It entails physically trenching in your front yard the entire length from the sidewalk to your home in order to install the new water service.

The other method is "trenchless". There are multiple trenchless techniques. The most common ones for water service replacement are impact moling, guided boring, pipe pulling, and pipe splitting. These methods are the least disruptive and include digging access pits at the sidewalk location and sometimes at the home.

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Sources of Lead in Drinking Water

(Source: EPA.gov)

- Lead Service Line: Lead service lines can be a major source of lead contamination in water.
- Copper pipe with lead solder: Solder made or installed before 1986 contained high lead levels.
- Faucets: Fixtures inside your home may contain lead.
- Galvanized Pipe: Lead particles can attach to the surface of galvanized pipes. Over time, the particles can enter your drinking water, causing elevated lead levels.

For additional information on construction methods please visit the following: https://www.lslr-collaborative.org/understanding-replacement-techniques.html

Property Restoration

After your service is replaced your property will need to be restored. The method you choose will dictate the extent of the disruption. Restoration could include topsoil, seed, and fertilizer, concrete repair, and any other unique landscaping item. The cost of this may or may not be included in your quote from the plumber; this cost is reimbursable. Read your quote carefully and ask questions.

Pregualified Plumber Listing

Listed below are the prequalified companies that homeowners must contract with if they wish to be eligible for the Private Lead Service Line Subsidy. Cost may vary between contractors for the same work, so please contact at least two of contractors to obtain competitive quotes and choose the one you would like to hire for the work.

Business Name	Address	City, State	Phone Number
Abel Plumbing	1402 W. South Park Ave	Oshkosh, WI	(920)385-7037
Acme Trenchless Utilities LLC	844 Ransom Street	Ripon, WI	(920) 376-4222
Ahern-Gross	218 S. Main Street	Fond du Lac, WI	(920) 921-1414
Mand Plumbing	PO Box 1341	Fond du Lac, WI	(920) 924-4575
Mies Rooter & Plumbing	N733 Mosher Drive	Fond du Lac, WI	(920) 922-7273
Pat Mand Boring & Trenching	PO Box 1541	Fond du Lac, WI	(920) 960-3635
Silica Plumbing & Heating	N8582 Cty QQ	Malone, WI	(920) 921-4499

There are two forms that will be needed to be sent to the City to participate in the program. The plumbers have these forms, or they can be found at the following website:

https://www.fdl.wi.gov/departments.iml?DeptID=32&DeptPage=219

Homeowner-Plumber Supplemental Agreement

- Agreement between you and the plumber explaining how the subsidy works
- Both parties to sign this form and submit to the City before the work starts

Application for Payment of Costs (After Work is Completed)

 This is the form the plumber will fill out after the work is done and passes inspection and submits to the City to request the subsidy payment.

2019 Subsidy Amount

The 2019 Private Lead Service Line Replacement Program will assist property owners in replacing private lead service lines by providing a subsidy payment for a portion of eligible costs. **For 2019, this amount will be up to \$3,000.** In 2017 & 2018, the average cost for this work was \$3,300 per water service.

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